

Force and Weight Indicator PCE-DPD-F1



PCE-DPD-F Series Force and Weight Indicator

Force display for strain gauges with mV & V / modular output cards / 6 digit LED display / 230V or 24V power supply

The built-in display is used to indicate the force and weight detected by force sensors and load cells with strain gauges. The output signal of the measuring cell is irrelevant because the DMS display makes it possible to display the correct weight in mV / V based on the set sensitivity. The DMS display shows the measured values on a 6-digit LED display. The measuring range could theoretically be between -199999 ... 999999. Depending on the desired and adjusted scaling, a corresponding unit sticker can be affixed to the installation indicator.

The DMS display can directly supply voltage to the connected measuring cell with strain gauges. The supply voltage can be selected between 5V and 10V. Depending on the voltage selected, up to 8 or 4 force or load cells can be connected to the DMS digital display. A special feature of this digital display for mV / V is the modular output concept. Different, changeable output cards are available depending on the application.

- ▶ Digital display for strain gauges
- ▶ mV / V input
- ▶ 3 different measuring speeds
- ▶ Modular output cards available
- ▶ 1/8 DIN panel mounting dimensions
- ▶ LED display

Specifications

Technical specification for DMS display of the PCE-DPD-F series

Signal Input Range	Accuracy at 25°C	Sensitivity in mV / V at 5V	Sensitivity in mV / V at 10V
0 ... 100 mV DC	± 0.05% of reading	20 mV / V	10 mV / V
0 ... 30 mV DC	± 0.05% of reading	6 mV / V	3 mV / V
0 ... 20 mV DC	± 0.05% of reading	4 mV / V	2 mV / V
0 ... 15 mV DC	± 0.05% of reading	3 mV / V	1.5 mV / V
0 ... 10 mV DC	± 0.05% of reading	2 mV / V	1 mV / V
0 ... 5 mV DC	± 0.05% of reading	1 mV / V	0.5 mV / V
Maximum input voltage		30V in all measuring ranges	
Supply voltage measuring cells		5V or 10V	
Maximum current		140-mA	
Maximum number of measuring cells (with 350 Ohm measuring cells otherwise max. 140-mA)		5V supply: 1 ... 8 measuring cells 10V supply: 1 ... 4 measuring cells	
Display		6-digit 7-segment LED display	
Units (available to user)		g, kg, t, pcs, mg, lb, N, kN	
Colour		Red	
Character height		14 mm	
Display area		-199999 ... 999999	
Decimal		Adjustable after each displayed digit	
Under and Over range display		The display flashes	
Measuring rate (adjustable) / response time		16 Hz / 63 ms 50 Hz / 20 ms 60 Hz / 17 ms	
Refresh rate display		16 Hz	
Electrical connections		Screw connections 1 ... 2.5 mm ²	
Power supply		85 ... 265V AC / DC	
Input		Max. 1 W without output cards Max. 4 W with output cards	
Degree of protection		Front: IP65	

More information

More product info



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Subject to change

Assembly	Panel cut
Size panel cutout	92 x 44 mm / 3.6 x 1.7 in
Dimensions	96 x 48 x 91 mm / 3.7 x 1.9 x 3.6 in
Weight	About 150 g / < 1 lb
Operating temperature	0 ... 50°C / 32 ... 122°F
Storage temperature	-20 ... 70°C / -4 ... 158°F
Heating time	About 15 minutes

Subject to change